

$K^*(892)$

$$I(J^P) = \frac{1}{2}(1^-)$$

NODE=M018

 $K^*(892)$ MASS

NODE=M018205

CHARGED ONLY, HADROPRODUCEDNODE=M018M1
NODE=M018M1

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	CHG	COMMENT	
891.66 ± 0.26 OUR AVERAGE						
892.6 ± 0.5	5840	BAUBILLIER 84B	HBC	-	8.25 $K^- p \rightarrow \bar{K}^0 \pi^- p$	
888 ± 3		NAPIER 84	SPEC	+	200 $\pi^- p \rightarrow 2K_S^0 X$	
891 ± 1		NAPIER 84	SPEC	-	200 $\pi^- p \rightarrow 2K_S^0 X$	
891.7 ± 2.1	3700	BARTH 83	HBC	+	70 $K^+ p \rightarrow K^0 \pi^+ X$	
891 ± 1	4100	TOAFF 81	HBC	-	6.5 $K^- p \rightarrow \bar{K}^0 \pi^- p$	
892.8 ± 1.6		AJINENKO 80	HBC	+	32 $K^+ p \rightarrow K^0 \pi^+ X$	
890.7 ± 0.9	1800	AGUILAR-...	78B	HBC	±	0.76 $\bar{p} p \rightarrow K^\mp K_S^0 \pi^\pm$
886.6 ± 2.4	1225	BALAND 78	HBC	±	12 $\bar{p} p \rightarrow (K\pi)^\pm X$	
891.7 ± 0.6	6706	COOPER 78	HBC	±	0.76 $\bar{p} p \rightarrow (K\pi)^\pm X$	
891.9 ± 0.7	9000	¹ PALER 75	HBC	-	14.3 $K^- p \rightarrow (K\pi)^- X$	
892.2 ± 1.5	4404	AGUILAR-...	71B	HBC	-	3.9,4.6 $K^- p \rightarrow (K\pi)^- p$
891 ± 2	1000	CRENNELL 69D	DBC	-	3.9 $K^- N \rightarrow K^0 \pi^- X$	
890 ± 3.0	720	BARLOW 67	HBC	±	1.2 $\bar{p} p \rightarrow (K^0 \pi)^\pm K^\mp$	
889 ± 3.0	600	BARLOW 67	HBC	±	1.2 $\bar{p} p \rightarrow (K^0 \pi)^\pm K \pi$	
891 ± 2.3	620	² DEBAERE 67B	HBC	+	3.5 $K^+ p \rightarrow K^0 \pi^+ p$	
891.0 ± 1.2	1700	³ WOJCICKI 64	HBC	-	1.7 $K^- p \rightarrow \bar{K}^0 \pi^- p$	
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●						
893.5 ± 1.1	27k	⁴ ABELE 99D	CBAR	±	0.0 $\bar{p} p \rightarrow K^+ K^- \pi^0$	
890.4 ± 0.2 ± 0.5	80 ± 0.8k	⁵ BIRD 89	LASS	-	11 $K^- p \rightarrow \bar{K}^0 \pi^- p$	
890.0 ± 2.3	800	^{2,3} CLELAND 82	SPEC	+	30 $K^+ p \rightarrow K_S^0 \pi^+ p$	
896.0 ± 1.1	3200	^{2,3} CLELAND 82	SPEC	+	50 $K^+ p \rightarrow K_S^0 \pi^+ p$	
893 ± 1	3600	^{2,3} CLELAND 82	SPEC	-	50 $K^+ p \rightarrow K_S^0 \pi^- p$	
896.0 ± 1.9	380	DELFOSSÉ 81	SPEC	+	50 $K^\pm p \rightarrow K^\pm \pi^0 p$	
886.0 ± 2.3	187	DELFOSSÉ 81	SPEC	-	50 $K^\pm p \rightarrow K^\pm \pi^0 p$	
894.2 ± 2.0	765	² CLARK 73	HBC	-	3.13 $K^- p \rightarrow \bar{K}^0 \pi^- p$	
894.3 ± 1.5	1150	^{2,3} CLARK 73	HBC	-	3.3 $K^- p \rightarrow \bar{K}^0 \pi^- p$	
892.0 ± 2.6	341	² SCHWEING...68	HBC	-	5.5 $K^- p \rightarrow \bar{K}^0 \pi^- p$	

OCCUR=2

OCCUR=2

OCCUR=2

OCCUR=3

OCCUR=2

OCCUR=2
OCCUR=2**CHARGED ONLY, PRODUCED IN τ LEPTON DECAYS**NODE=M018MCT
NODE=M018MCT

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
895.47 ± 0.20 ± 0.74				
	53k	⁶ EPIFANOV 07	BELL	$\tau^- \rightarrow K_S^0 \pi^- \nu_\tau$
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●				
892.0 ± 0.5		⁷ BOITO 10	RVUE	$\tau^- \rightarrow K_S^0 \pi^- \nu_\tau$
892.0 ± 0.9		^{8,9} BOITO 09	RVUE	$\tau^- \rightarrow K_S^0 \pi^- \nu_\tau$
895.3 ± 0.2		^{8,10} JAMIN 08	RVUE	$\tau^- \rightarrow K_S^0 \pi^- \nu_\tau$
896.4 ± 0.9	11970	¹¹ BONVICINI 02	CLEO	$\tau^- \rightarrow K^- \pi^0 \nu_\tau$
895 ± 2		¹² BARATE 99R	ALEP	$\tau^- \rightarrow K^- \pi^0 \nu_\tau$

NEUTRAL ONLYNODE=M018M2
NODE=M018M2

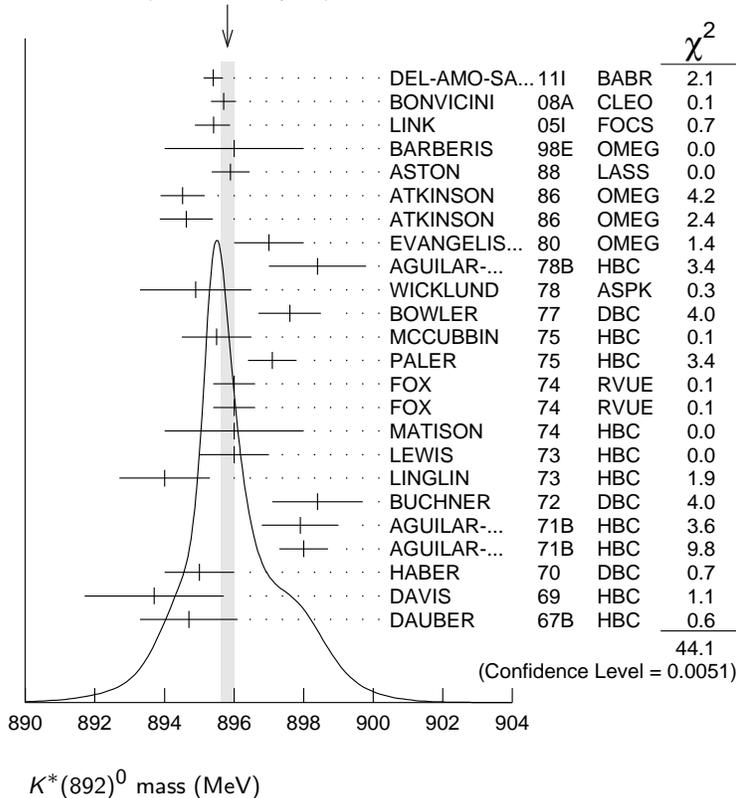
VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT	
895.81 ± 0.19 OUR AVERAGE					
Error includes scale factor of 1.4. See the ideogram below. [895.94 ± 0.22 MeV OUR 2012 AVERAGE Scale factor = 1.4]					
895.4 ± 0.2 ± 0.2	243k	¹³ DEL-AMO-SA..11i	BABR	$D^+ \rightarrow K^- \pi^+ e^+ \nu_e$	
895.7 ± 0.2 ± 0.3	141k	¹⁴ BONVICINI 08A	CLEO	$D^+ \rightarrow K^- \pi^+ \pi^+$	
895.41 ± 0.32 ^{+0.35} _{-0.43}	18k	¹⁵ LINK 05i	FOCS	$D^+ \rightarrow K^- \pi^+ \mu^+ \nu_\mu$	
896 ± 2		BARBERIS 98E	OMEG	450 $pp \rightarrow p_f p_s K^* K^*$	
895.9 ± 0.5 ± 0.2		ASTON 88	LASS	11 $K^- p \rightarrow K^- \pi^+ n$	
894.52 ± 0.63	25k	¹ ATKINSON 86	OMEG	20-70 γp	
894.63 ± 0.76	20k	¹ ATKINSON 86	OMEG	20-70 γp	
897 ± 1	28k	EVANGELIS... 80	OMEG	10 $\pi^- p \rightarrow K^+ \pi^- (\Lambda, \Sigma)$	
898.4 ± 1.4	1180	AGUILAR-...	78B	HBC	0.76 $\bar{p} p \rightarrow K^\mp K_S^0 \pi^\pm$
894.9 ± 1.6		WICKLUND 78	ASPK	3,4,6 $K^\pm N \rightarrow (K\pi)^0 N$	
897.6 ± 0.9		BOWLER 77	DBC	5.4 $K^+ d \rightarrow K^+ \pi^- pp$	
895.5 ± 1.0	3600	MCCUBBIN 75	HBC	3.6 $K^- p \rightarrow K^- \pi^+ n$	

NEW

OCCUR=2

897.1 ± 0.7	22k	¹ PALER	75	HBC	14.3 $K^- p \rightarrow (K\pi)^0 X$	
896.0 ± 0.6	10k	FOX	74	RVUE	2 $K^- p \rightarrow K^- \pi^+ n$	
896.0 ± 0.6		FOX	74	RVUE	2 $K^+ n \rightarrow K^+ \pi^- p$	OCCUR=2
896 ± 2		¹⁶ MATISON	74	HBC	12 $K^+ p \rightarrow K^+ \pi^- \Delta$	
896 ± 1	3186	LEWIS	73	HBC	2.1-2.7 $K^+ p \rightarrow K \pi \pi p$	
894.0 ± 1.3		¹⁶ LINGLIN	73	HBC	2-13 $K^+ p \rightarrow$ $K^+ \pi^- \pi^+ p$	
898.4 ± 1.3	1700	² BUCHNER	72	DBC	4.6 $K^+ n \rightarrow K^+ \pi^- p$	
897.9 ± 1.1	2934	² AGUILAR-...	71B	HBC	3.9,4.6 $K^- p \rightarrow K^- \pi^+ n$	
898.0 ± 0.7	5362	² AGUILAR-...	71B	HBC	3.9,4.6 $K^- p \rightarrow$ $K^- \pi^+ \pi^- p$	OCCUR=2
895 ± 1	4300	³ HABER	70	DBC	3 $K^- N \rightarrow K^- \pi^+ X$	
893.7 ± 2.0	10k	DAVIS	69	HBC	12 $K^+ p \rightarrow K^+ \pi^- \pi^+ p$	
894.7 ± 1.4	1040	² DAUBER	67B	HBC	2.0 $K^- p \rightarrow K^- \pi^+ \pi^- p$	
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●						
894.9 ± 0.5 ± 0.7	14.4k	¹⁷ MITCHELL	09A	CLEO	$D_s^+ \rightarrow K^+ K^- \pi^+$	
896.2 ± 0.3	20k	⁸ AUBERT	07AK	BABR	10.6 $e^+ e^- \rightarrow$ $K^{*0} K^\pm \pi^\mp \gamma$	
900.7 ± 1.1	5900	BARTH	83	HBC	70 $K^+ p \rightarrow K^+ \pi^- X$	

WEIGHTED AVERAGE
895.81±0.19 (Error scaled by 1.4)



¹ Inclusive reaction. Complicated background and phase-space effects.

² Mass errors enlarged by us to Γ/\sqrt{N} . See note.

³ Number of events in peak reevaluated by us.

⁴ K-matrix pole.

⁵ From a partial wave amplitude analysis.

⁶ From a fit in the $K_0^*(800) + K^*(892) + K^*(1410)$ model.

⁷ From the pole position of the $K\pi$ vector form factor using EPIFANOV 07 and constraints from K_{f3} decays in ANTONELLI 10.

⁸ Systematic uncertainties not estimated.

⁹ From the pole position of the $K\pi$ vector form factor in the complex s -plane and using EPIFANOV 07 data.

¹⁰ Reanalysis of EPIFANOV 07 using resonance chiral theory.

¹¹ Calculated by us from the shift by 4.7 ± 0.9 MeV (statistical uncertainty only) reported in BONVICINI 02 with respect to the world average value from PDG 00.

¹² With mass and width of the $K^*(1410)$ fixed at 1412 MeV and 227 MeV, respectively.

¹³ Taking into account the $K^*(892)^0$, S -wave and P -wave ($K^*(1410)^0$).

¹⁴ From the isobar model with a complex pole for the κ .

NODE=M018M;LINKAGE=I

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NODE=M018M;LINKAGE=W

NODE=M018M1;LINKAGE=AN

NODE=M018M1;LINKAGE=F

NODE=M018MCT;LINKAGE=EF

NODE=M018MCT;LINKAGE=BT

NODE=M018M2;LINKAGE=NS

NODE=M018MCT;LINKAGE=BI

NODE=M018MCT;LINKAGE=JA

NODE=M018MCT;LINKAGE=BO

NODE=M018MCT;LINKAGE=BA

NODE=M018M2;LINKAGE=DE

NODE=M018M2;LINKAGE=BO

¹⁵ Fit to $K\pi$ mass spectrum includes a non-resonant scalar component.

¹⁶ From pole extrapolation.

¹⁷ This value comes from a fit with χ^2 of 178/117.

NODE=M018W2;LINKAGE=LI

NODE=M018M;LINKAGE=C

NODE=M018M2;LINKAGE=MI

A REVIEW GOES HERE – Check our WWW List of Reviews

NODE=M018209

$m_{K^*(892)^0} - m_{K^*(892)^\pm}$

NODE=M018D

NODE=M018D

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	CHG	COMMENT
6.7±1.2 OUR AVERAGE					
7.7±1.7	2980	AGUILAR-...	78B	HBC	±0 0.76 $\bar{p}p \rightarrow K^\mp K_S^0 \pi^\pm$
5.7±1.7	7338	AGUILAR-...	71B	HBC	-0 3.9,4.6 $K^- p$
6.3±4.1	283	¹⁸ BARASH	67B	HBC	0.0 $\bar{p}p$

¹⁸ Number of events in peak reevaluated by us.

NODE=M018D;LINKAGE=W

$K^*(892)$ RANGE PARAMETER

NODE=M018R

All from partial wave amplitude analyses.

NODE=M018R

NODE=M018R

VALUE (GeV ⁻¹)	EVTS	DOCUMENT ID	TECN	CHG	COMMENT
Average is meaningless. [3.6 ± 0.6 GeV ⁻¹ OUR 2012 AVERAGE]					
2.1 ± 0.5 ± 0.5	243k	¹⁹ DEL-AMO-SA.11i	BABR	0	$D^+ \rightarrow K^- \pi^+ e^+ \nu_e$
3.96 ± 0.54 ^{+1.31} _{-0.90}	18k	²⁰ LINK	05i	FOCS	0 $D^+ \rightarrow K^- \pi^+ \mu^+ \nu_\mu$
3.4 ± 0.7		ASTON	88	LASS	0 11 $K^- p \rightarrow K^- \pi^+ n$
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●					
12.1 ± 3.2 ± 3.0		BIRD	89	LASS	- 11 $K^- p \rightarrow \bar{K}^0 \pi^- p$

¹⁹ Taking into account the $K^*(892)^0$, S-wave and P-wave ($K^*(1410)^0$).

²⁰ Fit to $K\pi$ mass spectrum includes a non-resonant scalar component.

NODE=M018R;LINKAGE=DE

NODE=M018R;LINKAGE=LI

$K^*(892)$ WIDTH

NODE=M018215

CHARGED ONLY, HADROPRODUCED

NODE=M018W1

NODE=M018W1

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	CHG	COMMENT
50.8±0.9 OUR FIT					
50.8±0.9 OUR AVERAGE					
49 ± 2	5840	BAUBILLIER	84B	HBC	- 8.25 $K^- p \rightarrow \bar{K}^0 \pi^- p$
56 ± 4		NAPIER	84	SPEC	- 200 $\pi^- p \rightarrow 2K_S^0 X$
51 ± 2	4100	TOAFF	81	HBC	- 6.5 $K^- p \rightarrow \bar{K}^0 \pi^- p$
50.5±5.6		AJINENKO	80	HBC	+ 32 $K^+ p \rightarrow K^0 \pi^+ X$
45.8±3.6	1800	AGUILAR-...	78B	HBC	± 0.76 $\bar{p}p \rightarrow K^\mp K_S^0 \pi^\pm$
52.0±2.5	6706	²¹ COOPER	78	HBC	± 0.76 $\bar{p}p \rightarrow (K\pi)^\pm X$
52.1±2.2	9000	²² PALER	75	HBC	- 14.3 $K^- p \rightarrow (K\pi)^-$
46.3±6.7	765	²¹ CLARK	73	HBC	- 3.13 $K^- p \rightarrow \bar{K}^0 \pi^- p$
48.2±5.7	1150	^{21,23} CLARK	73	HBC	- 3.3 $K^- p \rightarrow \bar{K}^0 \pi^- p$
54.3±3.3	4404	²¹ AGUILAR-...	71B	HBC	- 3.9,4.6 $K^- p \rightarrow (K\pi)^- p$
46 ± 5	1700	^{21,23} WOJCICKI	64	HBC	- 1.7 $K^- p \rightarrow \bar{K}^0 \pi^- p$
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●					
54.8±1.7	27k	²⁴ ABELE	99D	CBAR	± 0.0 $\bar{p}p \rightarrow K^+ K^- \pi^0$
45.2±1 ± 2	79.7±0.8k	²⁵ BIRD	89	LASS	- 11 $K^- p \rightarrow \bar{K}^0 \pi^- p$
42.8±7.1	3700	BARTH	83	HBC	+ 70 $K^+ p \rightarrow K^0 \pi^+ X$
64.0±9.2	800	^{21,23} CLELAND	82	SPEC	+ 30 $K^+ p \rightarrow K_S^0 \pi^+ p$
62.0±4.4	3200	^{21,23} CLELAND	82	SPEC	+ 50 $K^+ p \rightarrow K_S^0 \pi^+ p$
55 ± 4	3600	^{21,23} CLELAND	82	SPEC	- 50 $K^+ p \rightarrow K_S^0 \pi^- p$
62.6±3.8	380	DELFOSSÉ	81	SPEC	+ 50 $K^\pm p \rightarrow K^\pm \pi^0 p$
50.5±3.9	187	DELFOSSÉ	81	SPEC	- 50 $K^\pm p \rightarrow K^\pm \pi^0 p$

OCCUR=2

OCCUR=2

OCCUR=2

OCCUR=3

OCCUR=2

CHARGED ONLY, PRODUCED IN τ LEPTON DECAYSNODE=M018W5
NODE=M018W5

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
46.2±0.6±1.2	53k	²⁶ EPIFANOV	07	BELL $\tau^- \rightarrow K_S^0 \pi^- \nu_\tau$
• • • We do not use the following data for averages, fits, limits, etc. • • •				
46.5±1.1		²⁷ BOITO	10	RVUE $\tau^- \rightarrow K_S^0 \pi^- \nu_\tau$
46.2±0.4		^{28,29} BOITO	09	RVUE $\tau^- \rightarrow K_S^0 \pi^- \nu_\tau$
47.5±0.4		^{28,30} JAMIN	08	RVUE $\tau^- \rightarrow K_S^0 \pi^- \nu_\tau$
55 ±8		³¹ BARATE	99R	ALEP $\tau^- \rightarrow K^- \pi^0 \nu_\tau$

NEUTRAL ONLYNODE=M018W2
NODE=M018W2

47.4 ±0.6 OUR FIT Error includes scale factor of 2.2. [48.7 ± 0.8 MeV OUR 2012 FIT Scale factor = 1.7]

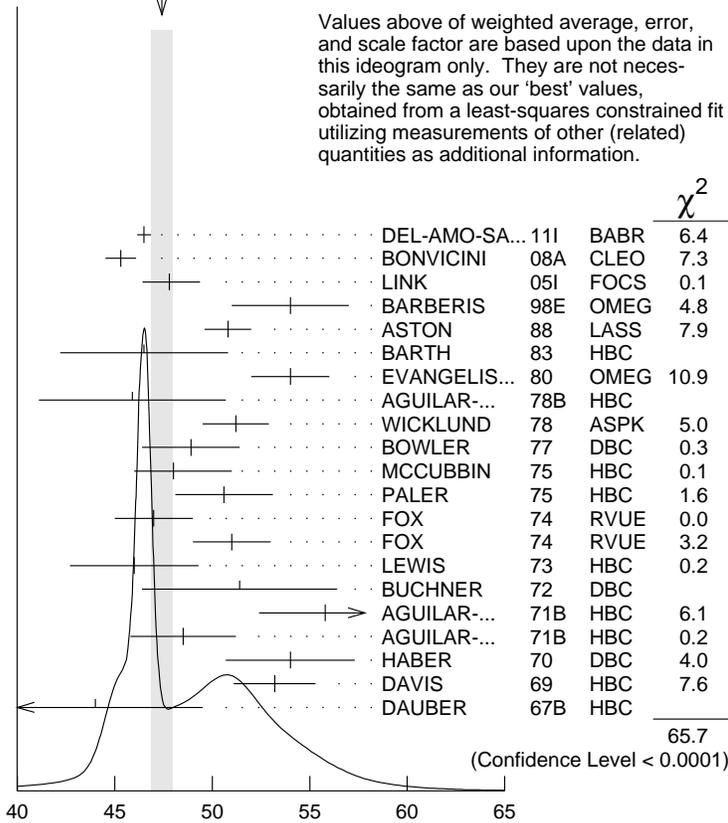
NEW

47.4 ±0.6 OUR AVERAGE Error includes scale factor of 2.0. See the ideogram below. [48.7 ± 0.7 MeV OUR 2012 AVERAGE Scale factor = 1.6]

NEW

46.5 ±0.3 ±0.2	243k	³² DEL-AMO-SA..11I	BABR	$D^+ \rightarrow K^- \pi^+ e^+ \nu_e$	
45.3 ±0.5 ±0.6	141k	³³ BONVICINI	08A	CLEO $D^+ \rightarrow K^- \pi^+ \pi^+$	
47.79±0.86 ^{+1.32} _{-1.06}	18k	³⁴ LINK	05I	FOCS $D^+ \rightarrow K^- \pi^+ \mu^+ \nu_\mu$	
54 ±3		BARBERIS	98E	OMEG 450 $pp \rightarrow p_f p_s K^* \bar{K}^*$	
50.8 ±0.8 ±0.9		ASTON	88	LASS 11 $K^- p \rightarrow K^- \pi^+ n$	
46.5 ±4.3	5900	BARTH	83	HBC 70 $K^+ p \rightarrow K^+ \pi^- X$	
54 ±2	28k	EVANGELIS...	80	OMEG 10 $\pi^- p \rightarrow K^+ \pi^- (\Lambda, \Sigma)$	
45.9 ±4.8	1180	AGUILAR-...	78B	HBC 0.76 $\bar{p} p \rightarrow K^\mp K_S^0 \pi^\pm$	
51.2 ±1.7		WICKLUND	78	ASPK 3,4,6 $K^\pm N \rightarrow (K\pi)^0 N$	
48.9 ±2.5		BOWLER	77	DBC 5.4 $K^+ d \rightarrow K^+ \pi^- pp$	
48 ⁺³ ₋₂	3600	MCCUBBIN	75	HBC 3.6 $K^- p \rightarrow K^- \pi^+ n$	
50.6 ±2.5	22k	²² PALER	75	HBC 14.3 $K^- p \rightarrow (K\pi)^0 X$	
47 ±2	10k	FOX	74	RVUE 2 $K^- p \rightarrow K^- \pi^+ n$	
51 ±2		FOX	74	RVUE 2 $K^+ n \rightarrow K^+ \pi^- p$	OCCUR=2
46.0 ±3.3	3186	²¹ LEWIS	73	HBC 2.1-2.7 $K^+ p \rightarrow K\pi\pi p$	
51.4 ±5.0	1700	²¹ BUCHNER	72	DBC 4.6 $K^+ n \rightarrow K^+ \pi^- p$	
55.8 ^{+4.2} _{-3.4}	2934	²¹ AGUILAR-...	71B	HBC 3.9,4.6 $K^- p \rightarrow K^- \pi^+ n$	OCCUR=2
48.5 ±2.7	5362	AGUILAR-...	71B	HBC 3.9,4.6 $K^- p \rightarrow K^- \pi^+ \pi^- p$	
54.0 ±3.3	4300	^{21,23} HABER	70	DBC 3 $K^- N \rightarrow K^- \pi^+ X$	
53.2 ±2.1	10k	²¹ DAVIS	69	HBC 12 $K^+ p \rightarrow K^+ \pi^- \pi^+ p$	
44 ±5.5	1040	²¹ DAUBER	67B	HBC 2.0 $K^- p \rightarrow K^- \pi^+ \pi^- p$	
• • • We do not use the following data for averages, fits, limits, etc. • • •					
45.7 ±1.1 ±0.5	14.4k	³⁵ MITCHELL	09A	CLEO $D_s^+ \rightarrow K^+ K^- \pi^+$	
50.6 ±0.9	20k	²⁸ AUBERT	07AK	BABR 10.6 $e^+ e^- \rightarrow K^{*0} K^\pm \pi^\mp \gamma$	

WEIGHTED AVERAGE
47.4±0.6 (Error scaled by 2.0)



NEUTRAL ONLY (MeV)

- 21 Width errors enlarged by us to $4 \times \Gamma / \sqrt{N}$; see note.
- 22 Inclusive reaction. Complicated background and phase-space effects.
- 23 Number of events in peak reevaluated by us.
- 24 K-matrix pole.
- 25 From a partial wave amplitude analysis.
- 26 From a fit in the $K_0^*(800) + K^*(892) + K^*(1410)$ model.
- 27 From the pole position of the $K\pi$ vector form factor using EPIFANOV 07 and constraints from K_{J3} decays in ANTONELLI 10.
- 28 Systematic uncertainties not estimated.
- 29 From the pole position of the $K\pi$ vector form factor in the complex s -plane and using EPIFANOV 07 data.
- 30 Reanalysis of EPIFANOV 07 using resonance chiral theory.
- 31 With mass and width of the $K^*(1410)$ fixed at 1412 MeV and 227 MeV, respectively.
- 32 Taking into account the $K^*(892)^0$, S -wave and P -wave ($K^*(1410)^0$).
- 33 From the isobar model with a complex pole for the κ .
- 34 Fit to $K\pi$ mass spectrum includes a non-resonant scalar component.
- 35 This value comes from a fit with χ^2 of 178/117.

NODE=M018W;LINKAGE=D
 NODE=M018W;LINKAGE=I
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 NODE=M018W5;LINKAGE=BT

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 NODE=M018W5;LINKAGE=BI

 NODE=M018W2;LINKAGE=JA
 NODE=M018W5;LINKAGE=BA
 NODE=M018W2;LINKAGE=DE
 NODE=M018W2;LINKAGE=BO
 NODE=M018M2;LINKAGE=LI
 NODE=M018W2;LINKAGE=MI

$K^*(892)$ DECAY MODES

Mode	Fraction (Γ_i/Γ)	Confidence level
Γ_1 $K\pi$	~ 100	%
Γ_2 $(K\pi)^\pm$	$(99.901 \pm 0.009) \%$	
Γ_3 $(K\pi)^0$	$(99.754 \pm 0.021) \%$	
Γ_4 $K^0\gamma$	$(2.46 \pm 0.21) \times 10^{-3}$	
Γ_5 $K^\pm\gamma$	$(9.9 \pm 0.9) \times 10^{-4}$	
Γ_6 $K\pi\pi$	< 7	$\times 10^{-4}$ 95%

NODE=M018220;NODE=M018

DESIG=1;OUR EVAL;→ UNCHECKED ←
 DESIG=11
 DESIG=12
 DESIG=4
 DESIG=3
 DESIG=2

CONSTRAINED FIT INFORMATION

An overall fit to the total width and a partial width uses 13 measurements and one constraint to determine 3 parameters. The overall fit has a $\chi^2 = 7.8$ for 11 degrees of freedom.

The following *off-diagonal* array elements are the correlation coefficients $\langle \delta p_i \delta p_j \rangle / (\delta p_i \cdot \delta p_j)$, in percent, from the fit to parameters p_i , including the branching fractions, $x_i \equiv \Gamma_i / \Gamma_{\text{total}}$. The fit constrains the x_i whose labels appear in this array to sum to one.

$$x_5 \left| \begin{array}{cc} -100 & \\ \Gamma & \begin{array}{cc} 19 & -19 \\ x_2 & x_5 \end{array} \end{array} \right.$$

	Mode	Rate (MeV)
Γ_2	$(K\pi)^\pm$	50.7 \pm 0.9
Γ_5	$K^\pm \gamma$	0.050 \pm 0.005

DESIG=11

DESIG=3

CONSTRAINED FIT INFORMATION

An overall fit to the total width and a partial width uses 22 measurements and one constraint to determine 3 parameters. The overall fit has a $\chi^2 = 66.8$ for 20 degrees of freedom.

The following *off-diagonal* array elements are the correlation coefficients $\langle \delta p_i \delta p_j \rangle / (\delta p_i \cdot \delta p_j)$, in percent, from the fit to parameters p_i , including the branching fractions, $x_i \equiv \Gamma_i / \Gamma_{\text{total}}$. The fit constrains the x_i whose labels appear in this array to sum to one.

$$x_4 \left| \begin{array}{cc} -100 & \\ \Gamma & \begin{array}{cc} 15 & -15 \\ x_3 & x_4 \end{array} \end{array} \right.$$

	Mode	Rate (MeV)	Scale factor
Γ_3	$(K\pi)^0$	47.3 \pm 0.6	2.1
Γ_4	$K^0 \gamma$	0.116 \pm 0.010	

DESIG=12

DESIG=4

K*(892) PARTIAL WIDTHS

NODE=M018225

$\Gamma(K^0 \gamma)$							Γ_4
VALUE (keV)	EVTS	DOCUMENT ID	TECN	CHG	COMMENT		
116 \pm 10 OUR FIT							
[117 \pm 10 keV OUR 2012 FIT]							
116.5 \pm 9.9	584	CARLSMITH	86	SPEC	0	$K_L^0 A \rightarrow K_S^0 \pi^0 A$	

NODE=M018W4
NODE=M018W4
NEW

$\Gamma(K^\pm \gamma)$							Γ_5
VALUE (keV)		DOCUMENT ID	TECN	CHG	COMMENT		
50 \pm 5 OUR FIT							
50 \pm 5 OUR AVERAGE							
48 \pm 11		BERG	83	SPEC	-	156 $K^- A \rightarrow \bar{K} \pi A$	
51 \pm 5		CHANDLEE	83	SPEC	+	200 $K^+ A \rightarrow K \pi A$	

NODE=M018W3
NODE=M018W3**K*(892) BRANCHING RATIOS**

NODE=M018230

$\Gamma(K^0 \gamma) / \Gamma_{\text{total}}$							Γ_4 / Γ
VALUE (units 10^{-3})		DOCUMENT ID	TECN	CHG	COMMENT		
2.46 \pm 0.21 OUR FIT							
[(2.39 \pm 0.21) \times 10^{-3} OUR 2012 FIT]							

NODE=M018R3
NODE=M018R3
NEW

• • • We do not use the following data for averages, fits, limits, etc. • • •

1.5 \pm 0.7 CARITHERS 75B CNTR 0 8-16 $\bar{K}^0 A$

$\Gamma(K^\pm\gamma)/\Gamma_{\text{total}}$

VALUE (units 10^{-3})	CL%	DOCUMENT ID	TECN	CHG	COMMENT
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0.99±0.09 OUR FIT

● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●

<1.6	95	BEMPORAD	73	CNTR +	10-16 K^+A
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 Γ_5/Γ

NODE=M018R2
 NODE=M018R2

 $\Gamma(K\pi\pi)/\Gamma((K\pi)^\pm)$

VALUE	CL%	DOCUMENT ID	TECN	CHG	COMMENT
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< 7×10^{-4}	95	JONGEJANS	78	HBC	$4 K^- p \rightarrow p \bar{K}^0 2\pi$
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● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●

< 20×10^{-4}		WOJCICKI	64	HBC -	$1.7 K^- p \rightarrow \bar{K}^0 \pi^- p$
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 Γ_6/Γ_2

NODE=M018R1
 NODE=M018R1

K*(892) REFERENCES

NODE=M018

DEL-AMO-SA...	111	PR D83 072001	P. del Amo Sanchez <i>et al.</i>	(BABAR Collab.)	REFID=16493
ANTONELLI	10	EPJ C69 399	M. Antonelli <i>et al.</i>	(FlaviaNet Working Group)	REFID=53448
BOITO	10	JHEP 1009 031	D.R. Boito, R. Escribano, M. Jamin	(BARC)	REFID=53632
BOITO	09	EPJ C59 821	D.R. Boito, R. Escribano, M. Jamin		REFID=52728
MITCHELL	09A	PR D79 072008	R.E. Mitchell <i>et al.</i>	(CLEO Collab.)	REFID=52756
BONVICINI	08A	PR D78 052001	G. Bonvicini <i>et al.</i>	(CLEO Collab.)	REFID=52426
JAMIN	08	PL B664 78	M. Jamin, A. Pich, J. Portoles		REFID=52285
AUBERT	07AK	PR D76 012008	B. Aubert <i>et al.</i>	(BABAR Collab.)	REFID=51908
EPIFANOV	07	PL B654 65	D. Epifanov <i>et al.</i>	(BELLE Collab.)	REFID=51929
LINK	05I	PL B621 72	J.M. Link <i>et al.</i>	(FNAL FOCUS Collab.)	REFID=50679
BONVICINI	02	PRL 88 111803	G. Bonvicini <i>et al.</i>	(CLEO Collab.)	REFID=48701
PDG	00	EPJ C15 1	D.E. Groom <i>et al.</i>		REFID=47469
ABELE	99D	PL B468 178	A. Abele <i>et al.</i>	(Crystal Barrel Collab.)	REFID=47401
BARATE	99R	EPJ C11 599	R. Barate <i>et al.</i>	(ALEPH Collab.)	REFID=47366
BARBERIS	98E	PL B436 204	D. Barberis <i>et al.</i>	(Omega Expt.)	REFID=46348
BIRD	89	SLAC-332	P.F. Bird	(SLAC)	REFID=41002
ASTON	88	NP B296 493	D. Aston <i>et al.</i>	(SLAC, NAGO, CINC, INUS)	REFID=40262
ATKINSON	86	ZPHY C30 521	M. Atkinson <i>et al.</i>	(BONN, CERN, GLAS+)	REFID=20564
CARLSMITH	86	PRL 56 18	D. Carlsmith <i>et al.</i>	(EFI, SACL)	REFID=22461
BAUBILLIER	84B	ZPHY C26 37	M. Baubillier <i>et al.</i>	(BIRM, CERN, GLAS+)	REFID=22459
NAPIER	84	PL 149B 514	A. Napier <i>et al.</i>	(TUFTS, ARIZ, FNAL, FLOR+)	REFID=22460
BARTH	83	NP B223 296	M. Barth <i>et al.</i>	(BRUX, CERN, GENO, MONS+)	REFID=22456
BERG	83	Thesis UMI 83-21652	D.M. Berg	(ROCH)	REFID=22457
CHANDLEE	83	PRL 51 168	C. Chandlee <i>et al.</i>	(ROCH, FNAL, MINN)	REFID=22458
CLELAND	82	NP B208 189	W.E. Cleland <i>et al.</i>	(DURH, GEVA, LAUS+)	REFID=22455
DELFOSSSE	81	NP B183 349	A. Delfosse <i>et al.</i>	(GEVA, LAUS)	REFID=21277
TOAFF	81	PR D23 1500	S. Toaff <i>et al.</i>	(ANL, KANS)	REFID=22454
AJINENKO	80	ZPHY C5 177	I.V. Ajinenko <i>et al.</i>	(SERP, BRUX, MONS+)	REFID=22449
EVANGELIS...	80	NP B165 383	C. Evangelista <i>et al.</i>	(BARI, BONN, CERN+)	REFID=22450
AGUILAR-...	78B	NP B141 101	M. Aguilar-Benitez <i>et al.</i>	(MADR, TATA+)	REFID=22438
BALAND	78	NP B140 220	J.F. Baland <i>et al.</i>	(MONS, BELG, CERN+)	REFID=20369
COOPER	78	NP B136 365	A.M. Cooper <i>et al.</i>	(TATA, CERN, CDEF+)	REFID=22441
JONGEJANS	78	NP B139 383	B. Jongejans <i>et al.</i>	(ZEEM, CERN, NIJM+)	REFID=22445
WICKLUND	78	PR D17 1197	A.B. Wicklund <i>et al.</i>	(ANL)	REFID=20124
BOWLER	77	NP B126 31	M.G. Bowler <i>et al.</i>	(OXF)	REFID=22437
CARITHERS	75B	PRL 35 349	W.C.J. Carithers <i>et al.</i>	(ROCH, MCGI)	REFID=22433
MCCUBBIN	75	NP B86 13	N.A. McCubbin, L. Lyons	(OXF)	REFID=22434
PALER	75	NP B96 1	K. Paler <i>et al.</i>	(RHEL, SACL, EPOL)	REFID=22435
FOX	74	NP B80 403	G.C. Fox, M.L. Griss	(CIT)	REFID=22430
MATISON	74	PR D9 1872	M.J. Matison <i>et al.</i>	(LBL)	REFID=22431
BEMPORAD	73	NP B51 1	C. Bemporad <i>et al.</i>	(CERN, ETH, LOIC)	REFID=22416
CLARK	73	NP B54 432	A.G. Clark, L. Lyons, D. Radojicic	(OXF)	REFID=22426
LEWIS	73	NP B60 283	P.H. Lewis <i>et al.</i>	(LOWC, LOIC, CDEF)	REFID=22427
LINGLIN	73	NP B55 408	D. Linglin	(CERN)	REFID=22428
BUCHNER	72	NP B45 333	K. Buchner <i>et al.</i>	(MPIM, CERN, BRUX)	REFID=22418
AGUILAR-...	71B	PR D4 2583	M. Aguilar-Benitez, R.L. Eisner, J.B. Kinson	(BNL)	REFID=22408
HABER	70	NP B17 289	B. Haber <i>et al.</i>	(REHO, SACL, BGNA, EPOL)	REFID=22406
CRENNELL	69D	PRL 22 487	D.J. Crennell <i>et al.</i>	(BNL)	REFID=22399
DAVIS	69	PRL 23 1071	P.J. Davis <i>et al.</i>	(LRL)	REFID=22400
SCHWEING...	68	PR 166 1317	F. Schweingruber <i>et al.</i>	(ANL, NWES)	REFID=22398
BARASH	67B	PR 156 1399	N. Barash <i>et al.</i>	(COLU)	REFID=20160
BARLOW	67	NC 50A 701	J. Barlow <i>et al.</i>	(CERN, CDEF, IRAD, LIPV)	REFID=20041
DAUBER	67B	PR 153 1403	P.M. Dauber <i>et al.</i>	(UCLA)	REFID=22389
DEBAERE	67B	NC 51A 401	W. de Baere <i>et al.</i>	(BRUX, CERN)	REFID=22390
WOJCICKI	64	PR 135 B484	S.G. Wojcicki	(LRL)	REFID=22379